



# Facilitations in the Clinical Diagnosis of Human Scabies through the Use of Ultraviolet Light (UV-Scab Scanning): A Case-Series Study

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“ A discovery supported by serendipity seems to offer a new source of support for the diagnosis of the viability of scabies infestations through in vivo and in situ identification of burrows and mite bodies when illuminated by 365 nm of UVA light (UV-scab scanning).

This procedure is able to identify a tunnel visible to the naked eye thanks to its bluish-white luminescence much more efficiently than any other visible-light sources. The body of *Sarcoptes scabiei* also emits a dot-like luminescence (white or green), although this is visible only when magnifying a common digital photograph at full size on any monitor.

To a greater extent than in full clinical conditions, this procedure promises the best diagnostic results in paucisymptomatic forms characterized by ab initio ambiguous manifestations or in monitoring unclear lesions after treatment that create significant indecision regarding therapeutic efficacy and patient contagiousness.

If future studies confirm the convenience of this procedure, it will represent an important diagnostic development over the inexpensive instruments already present in any dermatologist's office and a limited time required for the full-frame view of scabies images on PC monitors or other displays.

Based on these premises, the classic pathognomonic sign of scabies, “the burrow”, is more easily demonstrable in vivo and in situ thanks to fluorescence of *Sarcoptes scabiei* and its gallery.

The future availability of a device able to integrate all the steps of this novel procedure in a single action would offer a quick pre-dermoscopic/microscopic diagnosis upon the first examination of patient.

This represents a significant breakthrough in the history of scabies.

[Gaetano Scanni, Med Infect Dis. 2022 Dec; 7\(12\): 422-  
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9785351/](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9785351/)

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## National Pediculosis Association,® Inc. National Pediculosis Association Mission Statement

The NPA is a 501(c)(3) non-profit organization dedicated since 1983 to protecting children, their families and their environment from the misuse and abuse of prescription and over-the-counter pesticide treatments for lice and scabies.

Pediculosis (the medical term for an infestation of lice) provides a public health

## About LiceMeister® Comb

The NPA developed the LiceMeister® comb in 1997 to accomplish its mission by providing a higher standard for lice combing tools and a safe, cost-effective treatment alternative to pesticides. All proceeds from sales of the LiceMeister comb allow the NPA to be self-sustaining and independent from product manufacturers while accomplishing its mission of protecting children from the misuse and abuse of pesticide treatments for lice.

opportunity to teach important lessons about communicable disease preparedness, responsible personal behaviors, environmental health, and the importance of learning about pharmaceutical remedies before using them on our children and ourselves.

NPA is committed to setting the highest possible public health standards for children as they relate to the communicability and treatment of head lice. NPA has been the leader in raising pediculosis as a public health priority and a pioneer in public health education and research on pediculosis.

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Since 1997, the LiceMeister comb has been the preferred choice of many health professionals and the gold standard in combing tools for lice and nits (lice eggs). It is an FDA cleared medical device (510K) for the purposes of routine screening, early detection and removal of lice and nits, and it is the only comb to carry the name of the National Pediculosis Association.

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